Changes to the Claims

Please cancel claims 1-74, without prejudice to the underlying subject matter.

No other changes are made to the claims.

Listing of Claims:

1-74 (Cancelled)

75. (Original) A chemical vapor deposition method of depositing a single layer comprising a first metal, aluminum, nitrogen and boron on a semiconductor wafer, comprising the steps of:

placing said semiconductor wafer in a chemical vapor deposition chamber;

heating said wafer;

introducing a selected metal precursor, a selected aluminum precursor, a selected nitrogen precursor and a selected boron precursor into said chamber to generally simultaneously deposit said first metal, aluminum, nitrogen and boron on said semiconductor wafer.

- 76. (Original) The method of claim 75, wherein said metal is titanium and a single gas serves as said titanium precursor and said nitrogen precursor.
- 77. (Original) The method of claim 76, wherein said titanium and nitrogen precursor is Ti(N(CH₃)₂)₄.
- 78. (Original) The method of claim 75, wherein said wafer is heated to a temperature of approximately 250-550°C.

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79. (Original) The method of claim 76, wherein said titanium and nitrogen precursor is of the formula Ti(NR₂)₄, where R is selected from the group consisting of one or more of hydrogen, an alkyl group and an aryl group.

- 80. (Original) The method of claim 75, wherein said aluminum precursor is selected from the group consisting of DMEAA, dimethylaluminumhydride ethyldimethylamine adduct, dimethyl aluminum hydride, an alkyl aluminum compound, an alkylaminealuminum compound, and any adducted complexes of the above-named aluminum-containing compounds.
- 81. (Original) The method of claim 76, wherein said titanium precursor is selected from the group consisting of tetrakisdiethylamidotitanium, bis(2,4dimethyl)(1,3-pentadienyl)titanium, titanium tetrachloride, titanium tetrabromide, titanium tetraiodide, and cyclopentadienylcycloheptatrienyltitanium.
- 82. (Original) The method of claim 75 wherein said metal precursor is selected from the group consisting of metal halide compounds and organometallic compounds.
- 83. (Original) The method of claim 75 wherein said boron precursor is a boron reactant gas.
- 84. (Original) The method of claim 75 wherein said nitrogen precursor is a nitrogen reactant gas.
- 85. (Original) The method of claim 75, wherein at least one of said precursors is introduced into said chamber in gaseous form.

86. (Original) The method of claim 75, wherein at least one of said precursors is introduced into said chamber through a bubbler.

- 87. (Original) The method of claim 75, wherein at least one of said precursors is introduced into said chamber through direct liquid injection.
- 88. (Original) A method of depositing an amorphous alloy comprising a first metal, aluminum, nitrogen and boron on an object, comprising the steps of placing said object within a chemical vapor deposition chamber; and injecting gaseous precursors of said first metal, aluminum, nitrogen and boron into said chamber.
- 89. (Original) A method of depositing a generally conformal layer comprising a first metal, aluminum, nitrogen and boron on a semiconductor wafer, comprising the steps of:

providing a chemical vapor deposition reactor;

placing said wafer within said reactor;

heating said wafer to a selected processing temperature of from about 250 to about 550°C;

establishing a pressure of 100 millitorr to 10 torr within said reactor; and injecting a selected quantity of a gaseous organometallic precursor into said chamber;

injecting a selected quantity of an aluminum precursor into said chamber.

90. (Original) The method of claim 89, wherein said aluminum precursor is selected from the group consisting of DMEAA, dimethylaluminumhydride

ethyldiinethylamine adduct, dimethyl aluminum hydride, an alkyl aluminum compound, an alkylaminealuminum compound, and adducted complexes of any of the above-named aluminum-containing compounds.

91. (Original) The method of claim 89, wherein said first metal is titanium and is deposited from a titanium precursor selected from the group consisting of precursor of the formula Ti(NR₂), where R is selected from the group consisting of one or more of hydrogen, an alkyl group and an aryl group, tetrakisdiethylamidotitanium, bis(2,4dirnethyl)(1,3-pentadienyl)titanium, titanium tetrachloride, titanium tetrabromide, titanium tetraiodide, and cyclopentadienylcycloheptatrienyltitanium.